AMENDMENT OF SOLICITATION/MODIFICATION OF CON			1. Contract		<b>Page</b> 1 <b>Of</b> 9
2. Amendment/Modification No.	3. Effective Date	4. Requisition/Purchase Req	No.	5. Project No. (	If applicable)
0007	1999MAR18	SEE SCHEDULE			
6. Issued By	Code w52H09	7. Administered By (If other t	han Item 6)		Code
ACALA AMSTA-AC-PCH-A					
DONNA L WEBB (309) 782-6369					
ROCK ISLAND IL 61299-7630					
EMAIL: WEBBD@RIA.ARMY.MIL		SCD	PAS	ADP P	T
8. Name And Address Of Contractor (No., Stre	et, City, County, State and			nt Of Solicitation	
(,	,,,,,				
		I	DAAE 20 - 98 - R - <b>9B. Dated (See</b>		
			19980CT08	iciii 11)	
			10A. Modifica	tion Of Contract/	Order No.
G.1.			10B. Dated (Se	ee Item 13)	
Code Facility Code	HIS ITEM ONI V APPI I	ES TO AMENDMENTS OF SO	NI ICITATION	JC	
X The above numbered solicitation is amend					
is extended, is not extended.	icu as set for th in ficin 14.	The nour and date specified to	reccipt or Or	icis	
Offers must acknowledge receipt of this ame					
(a) By completing items 8 and 15, and return offer submitted; or (c) By separate letter or					
ACKNOWLEDGMENT TO BE RECEIVED	O AT THE PLACE DESIG	SNATED FOR THE RECEIPT	OF OFFERS	PRIOR TO THE	HOUR AND DATE
SPECIFIED MAY RESULT IN REJECTIO change may be made by telegram or letter, p					
opening hour and date specified.					F
12. Accounting And Appropriation Data (If red	quired)				
12 TYPE	TEEM ONLY ADDITIES T	O MODIFICATIONS OF CON	TTD A CTC/OD	DEDC	
13. 1HIS		O MODIFICATIONS OF CON act/Order No. As Described In 1		DEKS	
A. This Change Order is Issued Pursual The Contract/Order No. In Item 10.			The Cl	nanges Set Forth	In Item 14 Are Made In
B. The Above Numbered Contract/Orde Set Forth In Item 14, Pursuant To T	er Is Modified To Reflect T	9 ,	ch as changes	in paying office, a	appropriation data, etc.)
C. This Supplemental Agreement Is Ent	·	` '			
D. Other (Specify type of modification a	nd authority)				
E. IMPORTANT: Contractor is not,	is required to sign	this document and return		copies to the Issui	ng Office.
14. Description Of Amendment/Modification (0				•	0
SEE SECOND PAGE FOR DESCRIPTION					
Except as provided herein, all terms and condi- and effect.	tions of the document refer	renced in item 9A or 10A, as he	retofore chang	ed, remains unch	anged and in full force
15A. Name And Title Of Signer (Type or print)	<u> </u>	16A. Name And Title (	Of Contracting	Officer (Type or	print)
15B. Contractor/Offeror	15C. Date Signed	16B. United States Of A	America		16C. Date Signed
		D <sub>v</sub>			
(Signature of person authorized to sign)	-	By(Signature of	Contracting (	Officer)	
***************************************		** ***		COLLEGE LES	

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#### Name of Offeror or Contractor:

SECTION A - SUPPLEMENTAL INFORMATION

The purpose of this amendment is to close discussions and request Final Proposal Revisions. Revised offers must be submitted in strict accordance with the performance description and the changes stated in letters dated 22 Feb 99, 1 Mar 99, and 4 Mar 99, which are as follows:

1. Paragraph 3.2.1.3 Moving Infantry Target Mechanism (MIT), first two sentences. Change

FROM: The MIT shall be operated in two configurations; one using commercially available power for HW ranges, the other using self-supporting power (i.e, batteries, generator, etc.). The HW version shall come complete with all necessary cables and interfacting devices to be compatible with the commercial power and signal cables available as part of the target area configurations IAW Appendix B.

TO: The MIT shall be capable of operating on both the HW and RF ranges. The RF version must include self-supporting power (i.e., batteries, generator, etc.). If applicable, the HW version shall come complete with all necessary cables and/or interfacting devices to be compatible with the commercial power and signal cables available as part of the target area configurations TAW Appendix B

2. Paragraph 3.2.2.4 Battlefield Effects simulator (BES). Third sentence. Change

FROM: The preferable method of BES operation is to use a non-pyrotechnic solution to avoid the lengthy certification procedure for new pyrotechnics. The following subparagraphs describe the minimum required performance and physical characteristics of the BES.

TO: The preferable method of BES operation is to use a non-pyrotechnic solution to avoid the lengthy certification procedure and eliminate some of the transporting and handling risk involved with the current pyrotechnics.

3. Paragraph 3.2.2.4.i Audio/Visual Cue. Entire paragraph. Change

FROM: BES shall, as a minimum, have the capacity to produce a visual and audio cue for hostile fire, a visual cue for kill, and a visual cue for hit. The cues shall be visible and heard, on a clear day, from 1500 meters or greater, with the unaided eye and unprotected ear.

TO: BES shall, as a minimum, have the cpacity to produce a different and distinguishable effect for hostile fire, a target hit and a target kill. These effects shall replicate as closely as possible the real battlefield signatures produced: a visual and audio cue for hostile fire (e.g. flash and bang), a visual cue for kill (e.g. black, white smoke) and a visual cue for hit (e.g. steel and steel/stars). The cues shall be visible and heard, under day, night, and limited visibility conditions. During the day the cues must be able to be observed by the unaided eye from 1500 meters or greater. The hostile fire must be heard by the unprotected ear from 1500 meters or greater. During the day and under limited visibility conditions the cues must be observable through the thermal sight (both high and low magnification). At night all visible cues must be observable by the thermal and passive sight systems (both high and low magnification).

4. Paragraph 3.2.3.1 Round Detection. Sentence 2 through sentence 4. change

FROM: As a minimum, the SIT and MIT shall be capable of detecting the penetration of the target by 5.56mm through 50 caliber projectiles. The SAT, MAT, and MAT-V shall minimally detect projectiles from 5.56mm to 120mm plus anti-armor missiles. Projectiles shall be grouped into three sensitivity levels by size: 5.56 - 0.50 Cal, 25mm - 40mm, and 105mm - 120mm.

TO: As a minimum, the SIT and MIT shall be capable of detecting the penetration of the target by 5.56mm and larger projectiles. The SAT, MAT, and MAT-V shall minimally detect projectiles from 5.56mm and larger plus anti-armor missiles. Projectiles shall be grouped into three sesititivy levels by size: 5.56mm and larger, 25mm and larger, and 105mm and larger.

5. Paragraph 3.2.3.3 Data Collection. Sentence 3 through sentence 5. Change

FROM: The data collected from the SAT, MAT, and MAT-V shall additionaly include the location that the round penetrated the target plane, for both hits and near misses. Near misses are defined as within a minimum of 2 feet of the target. The calculated location of the hits for the SAT, MAT, and MAT-V shall be 100% accurate to within 60mm of where the round actually penetrated the plane of the target (refer to figure 1 for graphical representation). This error tolerance shall remin consistent for rounds penetrating the target at angles up to 15 degrees to the left, right and above the perpendicular to the plane of the target (refer to figure 1 for graphical representation).

TO: The data collected from the SAT, MAT, and MAT-V shall additionally include the location of all supersonic rounds penetrating the target plane, for both hits and near misses. Near misses are defined as within a minimum of 2 feet of the target. The calculated location of the hits for the SAT, MAT, and MAT-V shall be accurate 97% of the time, to within a minimum acceptable parameter of 120mm of where the round actually penetrated the plane of the target, or to within a preferred acceptable parameter

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of 60mm of where the round actually penetrated the plane of the target. This error tolerance shall remain consistent for rounds penetrating the target at angles up to 15 degrees to the left and right of the target centerline and up to three (3) degrees above and below the plane of the target.

6. Paragraph 3.2.3.2 Round Identification. Change:

FROM: FOr the SAT, Mat, and MAT-V the round detection method shall also have the capacity to discriminate between projectile types. The round identification method should have the capability to identify projectile types and report the type of round fired with a 95% accuracy. These may be reported in Lethality groupings by kill capability:

5.56mm Ball and Tracer 7.62mm Ball and Tracer 9mm Ball and Tracer .50 cal Ball and Tracer 25mm TPDS-T 25mm TPD 25mm Subcaliber LAW 30mm Training TP-T 40mm Practice Tracer 105mm TPT TPCSDS-T 105 HEAT-TP-T 120mm TPCSDS-T 120mm HEAT-TO-T MK19 40mm M385A1 M203 40mm Practice TOW

TO: For the SAT, MAT, and MAT-V the round detection method shall also have the capacity to discriminate between projectile types as listed below and shall report this information to the CCS. The round identification should have the capability to identify projectile types and report the type of round fired with a 95% accuracy. These may be reported in Lethality groupings by kill capability:

5.56mm Ball and Tracer
7.62mm Ball and Tracer
9mm Ball and Tracer
.50 cal Ball and Tracer
25mm TPDS-T
25mm TPD
25mm Subcaliber LAW
30mm Training TP-T
40mm Practice Tracer
105mm TPT TPCSDS-T
105mm HEAT-TP-T
120mm TPCSDS-T
120mm HEAT-TO-T
MK19 40mm M385A1
M203 40mm Practice

Round identification for sub-sonic rounds is not required. Detection of sub-sonic rounds is required as delineated in paragraph 3.2.3.1

7. The following changes are hereby made to the Adjectival Ratings in FAR Clause 52.212-2, Evaluation - Commercial Item, pages 37-38 of the solicitation at reference (a) to reflect the above technical change:

EXCELLENT: Hit Detection:

FROM: Item has been produced, or a prototype sample is available, and capabilities have been demonstrated that exceed the requirement listed in Paragraph 3.2.3 of the performance description.

TO: Item has been produced, or a prototype sample is available, and capabilities have been demonstrated that exceed the requirement listed in Paragraph 3.2.3 of the performance description, including the preferred acceptable parameter of accurately calculating the location of the hits for the SAT, MAT, and MAT-V to within 60mm of where the round actually penetrated the plane of the target, 97% of the time.

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#### Name of Offeror or Contractor:

GOOD: Hit Detection:

FROM: Meets the requirements listed in Paragraph 3.2.3 of the performance description, and has produced or a prototype is available that meets, but some redesign is necessary to achieve the specifications listed in the performance description.

TO: Item has been produced, or a prototype sample is available, and capabilities have been demonstrated that exceed the requirement listed in Paragraph 3.2.3 of the performance description, including the minimum acceptable parameter of accurately calculating the location of the hits for the SAT, MAT, and MAT-V to within 120mm of where the round actually penetrated the plane of the target, 97% of the time.

ADEQUATE: Hit Detection:

FROM: Meets the requirements listed in paragraph 3.2.3 of the performance description but considerable redesign is necessary.

TO: Meets the minimum acceptable requrements listed in Paragraph 3.2.3 of the performance description, and has produced or a prototype is available that meets, but some redesign is necessary to achieve the specifications listed in the performance description.

MARGINAL: Hit Detection:

FROM: Very low or no probability of meeting the technical requirements.

TO: Meets the minimum acceptable requirements listed in paragraph 3.2.3 of the performance description but considerable redesign is necessary.

- 8. Please note that the Price Evaluations sheets have been revised based on changes to the Hit Detection Device for Armor Targets. The change corrected the estimated quantities, evaluation ranges, and assigned weights as stated in our letter dated 01 March 1999. The latest revision is dated 03/12/99 can be obtained on the INTERNET under the PDF column. When submitting your Final Revision Proposal pricing spreadsheet please annotate on a separate sheet what components have been revised.
- 9. Prices submitted on the Cold Weather Kit shall include all hardware necessary for equipment operation to temperatures down to -40 degress F. (Examples generator, solar panels, batteries, etc.)
- 10. Submission of Final Proposal Revision must be received by March 22, 1999, at 12:00PM CT. Late offers will be handled in accordance with FAR 52.212.1(f) cited in the solicitation. Final acceptance of offers will be within 120 days of closing unless otherwise stated in the offer.
- 10. Offerors who do not intend to modify their original offers, but who do want to be considered for award must confirm their offers by responding to the Request for Final Proposal Revision to remain in consideration for ward. The Final Proposal Revision offer must be signed by an individual authorized to contractually bind the company.
- 11. Final Proposal Revision offers and pricing period prices must be reflected on this amendment 0007.
- 12. FAILURE TO ACKNOWLEDGED THIS AMENDMENT AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER.

\*\*\* END OF NARRATIVE A009 \*\*\*

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ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
	SECTION B - SUPPLIES OR SERVICES AND PRICES/COSTS				
0001	Supplies or Services and Prices/Costs				
0001	SAFFILED OF SERVICES AND FILESCO, COSSE				
0001AA	PRODUCTION QUANTITY WITHOUT FIRST ARTICLE/QV	1	EA	\$	\$
	NSN: 6920-01-000-0000				
	NOUN: CMP CASEY MPMG/SNIPER RANGE SECURITY CLASS: Unclassified				
	PRON: M18A0319M1 PRON AMD: 01				
	THE FOLLOWING INFORMATION IS				
	BEING PROVIDED ACCORDING TO THE				
	ACRONYM LISTING PROVIDE IN THE				
	PERFORMANCE DESCRIPTION. THE				
	RANGE CONSIST OF THE FOLLOWING:				
	COMPONENT QTY				
	HHC 2				
	RFSIT 70				
	SES 12 RFMIT 12				
	RFMII 12				
	(End of narrative B001)				
	Packaging and Marking				
	Inspection and Acceptance				
	INSPECTION: Destination ACCEPTANCE: Destination				
0002	Supplies or Services and Prices/Costs				
0002AA	PRODUCTION QUANTITY WITHOUT FIRST ARTICLE/QV	1	EA	\$	\$
	NSN: 6920-01-000-0000				
	NOUN: CASEY-HOVEY QUAL. TRNG RANGE				
	SECURITY CLASS: Unclassified				
	PRON: M18A1319M1 PRON AMD: 01				
	THE FOLLOWING INFORMATION IS				
	BEING PROVIDED ACCORDING TO THE				
	ACRONYM LISTING PROVIDE IN THE PERFORMANCE DESCRIPTION. THE				
	RANGE CONSIST OF THE FOLLOWING				
	COMPONENT QTY				
	HHC 2				
	RFSIT 95				
	RFMIT 15				
	HDD 24				
	ATKS 24				
	RFSAT 24				
	ATKS WILL BE PROVIDED AS				
	GOVERNMENT FURNISHED MATERIAL				
	(GFM) INCLUDE FOR INSTALLATION PURPOSES				
	INSTABLATION FURFOCES				

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ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
	(End of narrative B001)				
	Packaging and Marking				
	Inspection and Acceptance				
	INSPECTION: Destination ACCEPTANCE: Destination				
0003	Supplies or Services and Prices/Costs				
0003AA	PRODUCTION QUANTITY WITHOUT FIRST ARTICLE/QV	1	EA	\$	\$
	NSN: 6920-01-000-0000				
	NOUN: CMP CASEY-LIVE FIRE VILLAGE				
	SECURITY CLASS: Unclassified PRON: M18A2319M1 PRON AMD: 01				
	THE FOLLOWING INFORMATION IS				
	BEING PROVIDED ACCORDING TO THE				
	ACRONYM LISTING PROVIDED IN THE				
	PERFORMANCE DESCRIPTION. THE				
	RANGE CONSIST OF THE FOLLOWING:				
	COMPONENT QTY				
	HHC 2				
	RFSIT 30				
	SES 10				
	RFMIT 6				
	RFMAT-V 3				
	HDD 13				
	RFSAT 10				
	ATKS 13				
	ATKS WILL BE PROVIDED AS				
	GOVERNMENT FURNISHED MATERIAL				
	(GFM) INCLUDE FOR INSTALLATION				
	PURPOSES				
	(End of narrative B001)				
	(Sing of ingredie 2002)				
	Packaging and Marking				
	Inspection and Acceptance INSPECTION: Destination ACCEPTANCE: Destination				
0004	Supplies or Services and Prices/Costs				
0004AA	PRODUCTION QUANTITY WITHOUT FIRST ARTICLE/QV	1	EA	\$	\$
	NSN: 6920-01-000-0000				
	NOUN: W. CORRIDOR-TANK TABLE V-VI				
	SECURITY CLASS: Unclassified				
	PRON: M18A3319M1 PRON AMD: 01				
	THE FOLLOWING INFORMATION IS				

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ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
	BEING PROVIDED ACCORDING TO THE				
	ACRONYM LISTING PROVIDED IN THE				
	PERFORMANCE DESCRIPTION. THE				
	RANGE CONSIST OF THE FOLLOWING:				
	COMPONENT QTY				
	HHC 2				
	RFSIT 30				
	HDD 28				
	ATKS 28				
	RFSAT 25				
	RFMAT 3				
	THE ATKS WILL BE PROVIDED AS				
	GOVERNMENT FURNISHED MATERIAL				
	(GFM) INCLUDE FOR INSTALLATION				
	PURPOSES				
	(End of narrative B001)				
	(End of natiative Boot)				
	Packaging and Marking				
	Inspection and Acceptance				
	INSPECTION: Destination ACCEPTANCE: Destination				
0005	Supplies or Services and Prices/Costs				
0005AA	PRODUCTION QUANTITY WITHOUT FIRST ARTICLE/QV	1	EA	\$	\$
	NSN: 6920-01-000-0000				
	NOUN: CMP CASEY AT4/M203 RANGE				
	SECURITY CLASS: Unclassified				
	PRON: M18A4319M1 PRON AMD: 01				
	THE FOLLOWING INFORMATION IS				
	BEING PROVIDED ACCORDING TO THE				
	ACRONYM LISTING PROVIDED IN THE				
	PERFORMANCE DESCRIPTION. THE				
	RANGE CONSIST OF THE FOLLOWING:				
	COMPONENT QTY				
	HHC 2				
	HDD 2				
	ATKS 2				
	RFMAT-V 2				
	THE ATKS WILL BE PROVIDED AT				
	GOVERNMENT FURNISHED MATERIAL				
	(GFM) INCLUDE FOR INSTALLATION				
	PURPOSES				
	(Find of mountains, DOCS)				
	(End of narrative B001)				

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ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
	Packaging and Marking				
	Inspection and Acceptance				
	INSPECTION: Destination ACCEPTANCE: Destination				
0006	Supplies or Services and Prices/Costs				
0006AA	PRODUCTION QUANTITY WITHOUT FIRST ARTICLE/QV	1	EA	\$	\$
	NSN: 6920-01-000-0000				
	NOUN: W. CORRIDOR- AT4 RANGE				
	SECURITY CLASS: Unclassified				
	PRON: M18A5319M1 PRON AMD: 01				
	THE FOLLOWING INFORMATION IS				
	BEING PROVIDED ACCORDING TO THE ACRONYM LISTING PROVIDE IN THE				
	PERFORMANCE DESCRIPTION. THE				
	RANGE CONSIST OF THE FOLLOWING:				
	COMPONENT QTY				
	HHC 2				
	HDD 2				
	ATKS 2				
	RFMAT-V 2				
	THE ATKS WILL BE PROVIDED AS				
	GOVERNMENT FURNISHED MATERIAL				
	(GFM) INCLUDE FOR INSTALLATION				
	PURPOSES.				
	(Ded of normaline DOOL)				
	(End of narrative B001)				
	Packaging and Marking				
	Thereaching and December 2				
	Inspection and Acceptance INSPECTION: Destination				
0007	Supplies or Services and Prices/Costs				
0007AA	PRODUCTION QUANTITY WITHOUT FIRST ARTICLE/QV	1	EA	s	\$
		_		,	T
	NSN: 6920-01-000-0000 NOUN: TWIN BRIDGES- TANK TBL V-VI				
	SECURITY CLASS: Unclassified				
	PRON: M18A6319M1 PRON AMD: 01				
	THE FOLLOWING INFORMATION IS				
	BEING PROVIDED ACCORDING TO THE				
	BEING PROVIDED ACCORDING TO THE ACRONYM LISTING PROVIDED IN THE				
	ACRONYM LISTING PROVIDED IN THE				
	ACRONYM LISTING PROVIDED IN THE PERFORMANCE DESCRIPTION. THE				
	ACRONYM LISTING PROVIDED IN THE PERFORMANCE DESCRIPTION. THE RANGE CONSIST OF THE FOLLOWING:  COMPONENT QTY				
	ACRONYM LISTING PROVIDED IN THE PERFORMANCE DESCRIPTION. THE RANGE CONSIST OF THE FOLLOWING:  COMPONENT QTY  HHC 2				
	ACRONYM LISTING PROVIDED IN THE PERFORMANCE DESCRIPTION. THE RANGE CONSIST OF THE FOLLOWING:  COMPONENT QTY  HHC 2 RFSIT 30				
	ACRONYM LISTING PROVIDED IN THE PERFORMANCE DESCRIPTION. THE RANGE CONSIST OF THE FOLLOWING:  COMPONENT QTY  HHC 2				

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ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
	ATKS 28				
	RFSAT 25				
	RFMAT 3				
	MILE AMEG MILL DE DEGLIDED AG				
	THE ATKS WILL BE PROVIDED AS GOVERNMENT FURNISHED MATERIAL				
	(GFM) INCLUDE FOR INSTALLATION				
	PURPOSES.				
	(End of narrative BOO1)				
	(End of narrative B001)				
	Packaging and Marking				
	Inspection and Acceptance				
	INSPECTION: Destination ACCEPTANCE: Destination				
8000	Supplies or Services and Prices/Costs				
AA8000	PRODUCTION QUANTITY WITHOUT FIRST ARTICLE/OV	1	EA	\$	\$
	NSN: 6920-01-000-0000				
	NOUN: FT. A. P. HILL MARK 19 RANGE				
	SECURITY CLASS: Unclassified				
	PRON: M17TP322M1 PRON AMD: 05				
	THE FOLLOWING INFORMATION IS BEING PROVIDED ACCORDING TO THE				
	ACRONYM LISTING PROVIDE IN THE				
	PERFORMANCE DESCRIPTION. THE				
	RANGE CONSIST OF THE FOLLOWING:				
	COMPONENT QTY				
	HHC 1				
	RFSAT 35				
	HDD 37				
	RFSIT 40				
	RFMAT 2				
	RFCCS 1				
	ATKS 37				
	ATKS WILL BE PROVIDED AS				
	GOVERNMENT FURNISHED MATERIAL				
	(GFM) INCLUDED FOR				
	INSTALLATION PURPOSES				
	(End of narrative B001)				
	(Bild of Indifactive Boot)				
	Packaging and Marking				
	Inspection and Acceptance				
	INSPECTION: Destination ACCEPTANCE: Destination				